

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alcassedan, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,503	05/16/2006	Peter Michael Waterhouse	1021565000160	9383
	7590 12/28/200 INGERSOLL & ROOI	EXAM	EXAMINER	
POST OFFICE BOX 1404			ZHENG, LI	
ALEXANDRL	A, VA 22313-1404		ART UNIT	PAPER NUMBER
			1638	
			NOTIFICATION DATE	DELIVERY MODE
			12/28/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Application No. Applicant(s) 10/579,503 WATERHOUSE ET AL. Office Action Summary Examiner Art Unit LI ZHENG 1638 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 21 September 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 10.11.13.30 and 32-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 10.11.13.30.35 and 36 is/are rejected. 7) Claim(s) 32-34 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informat Patent Application

Application/Control Number: 10/579,503 Page 2

Art Unit: 1638

DETAILED ACTION

Claims 10-11, 13, 30 and 32-36 are pending.

2. Applicant's amendments to claims 10-11, 13, 30, 32-33 and 35-36 filed on

9/21/09 are acknowledged.

Claims 10-11, 13, 30 and 32-36 are examined on the merits.

3. The text of those sections of Title 35, U.S. Code not included in this action

can be found in a prior Office action.

4. The rejections and objections that are not recited in this Office Action are

considered as being withdrawn.

Claim Objections

5. Claims 32-34 are objected for being dependent on a rejected claim.

Further claims 32-33 are objected to because a series of singular dependent claims is permissible in which a dependent claim refers to a preceding

claim which, in turn, refers to another preceding claim.

A claim which depends from a dependent claim should not be separated by any claim which does not also depend from said dependent claim. It should Application/Control Number: 10/579,503

Art Unit: 1638

be kept in mind that a dependent claim may refer to any preceding independent claim. In general, applicant's sequence will not be changed. See MPEP § 608.01(n).c

Claim Rejections - 35 USC § 112

Written Description

6. Claims 10, 11, 13, 30 and 35-36 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention, for the reasons of record stated in the Office action mailed March 20, 2009. Applicants traverse in the paper filed September 21, 2009. Applicants' arguments have been fully considered but were not found persuasive.

Applicants argue that although the injection of dsRNA did not allow any conclusion to be made as to aphid mortality, it does not mean that dsRNA to the eIF1A of M. persicae does not bring about silencing to this gene. Applicants conclude that it seems that the eIF1A sequence of SEQ ID NO: 6 is indeed a useful sequence to target with RNAi construct to bring about a decreased growth, development, reproduction or survival of a plant sap-sucking insect (response, page 18, last paragraph).

Application/Control Number: 10/579,503

Art Unit: 1638

The Office contends that if the injection experiment did not allow any conclusion to be made as to aphid mortality, there is no basis to conclude that SEQ ID NO: 6 is indeed a useful sequence to target with RNAi construct to bring about a decreased growth, development, reproduction or survival of a plant sapsucking insect, given that there is no evidence in the specification or in the art to indicate that SEQ ID NO: 6 is essential for normal growth or development.

Applicants further argue that the specification has provided 2 examples sequence in the range claimed and variations relative to a reference sequence that a person with ordinary skill in the art would expect to be well tolerated in dsRNA and siRNA (response, page 9, 1st paragraph).

The Office contends that both species are over 92% identical to each other and that inhibition of SEQ ID NO: 6 does not show similar phenotype as that of SEQ ID NO: 5. Further, given that the specification does not teach any other species that are 85%-95% identical to SEQ ID NO: 5 and essential for normal growth or development, Applicants is not in possession of the claimed genus. Applicants are invited to present additional data to demonstrate that SEQ ID NO: 6 can be used for the instant invention.

Summary

No claim is allowed.

Application/Control Number: 10/579,503

Art Unit: 1638

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li Zheng whose telephone number is 571-272-8031. The examiner can normally be reached on Monday through Friday 9:00 AM - 5:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on 571-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/579,503 Page 6

Art Unit: 1638

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cynthia Collins/ Primary Examiner, Art Unit 1638